

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("20060030820").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 12:36
L2	0	("2006/0030820").URPN.	USPAT	OR	OFF	2010/02/12 12:43
L3	2	((("5120314") or ("6228065"))).PN.	USPAT; USOCR	OR	OFF	2010/02/12 12:45
L4	4	("4713056" "4986812" "5000737" "5021047"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 12:46
L5	4	("4731068" "4820272" "4826483" "4887999"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 12:46
L6	9	("2707954" "4233975" "4367738" "4391272" "4493703" "4687467" "4699614" "4710170"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 12:54
L7	5	("2753867" "3742949" "4233975" "4367738"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 12:55
L8	2	("3946732" "3951146"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 12:57
L9	69	("4233975").URPN.	USPAT	OR	OFF	2010/02/12 12:58
L10	6	("4233975" "4941879" "4995869" "5045063" "5259840" "5347078"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:03
L11	4	("4367738" "4642102" "4731068" "4826483"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:04
L12	16	("4995869").URPN.	USPAT	OR	OFF	2010/02/12 13:04
L13	6	("5484413").URPN.	USPAT	OR	OFF	2010/02/12 13:07
L14	2	("4233975" "4391272"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:10

L15	6	("5034002").URPN.	USPAT	OR	OFF	2010/02/12 13:10
L16	2	("4233975" "4391272"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:12
L17	25	("4932941").URPN.	USPAT	OR	OFF	2010/02/12 13:12
L18	8	("4713056" "4878899" "4932941" "4973316" "5019044" "5021047" "5045063" "5308331"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:14
L19	6	("4391272" "4775364" "4863427" "4929231" "4932941" "4950243"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:57
L20	5	("3705582" "3941129" "4173227" "4252118" "4439187").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:57
L21	14	("4950243").URPN.	USPAT	OR	OFF	2010/02/12 13:57
L22	3	("4391272" "4493703" "4713056").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 13:59
L23	5	("4929231").URPN.	USPAT	OR	OFF	2010/02/12 14:00
L24	4	("5308331").URPN.	USPAT	OR	OFF	2010/02/12 14:00
L25	4	("2893390" "4233975" "4479801").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 14:04
L26	12	("4832693").URPN.	USPAT	OR	OFF	2010/02/12 14:04
L27	10	("5120314").URPN.	USPAT	OR	OFF	2010/02/12 14:06
L28	51	("4493703").URPN.	USPAT	OR	OFF	2010/02/12 14:09
L29	3	("4367738" "4391272" "4650468").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 14:13
L30	29	("4820272").URPN.	USPAT	OR	OFF	2010/02/12 14:14
L31	7	("4731068" "4820272" "4840616" "4846796" "4909795" "5021047" "5037394").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 14:15

L32	13	("5259840").URPN.	USPAT	OR	OFF	2010/02/12 14:15
L33	9	("4801295" "4813940" "4820272" "4826491" "4994045" "5024660" "5057079" "5104385" "5147326").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 14:18
L34	39	("5222945").URPN.	USPAT	OR	OFF	2010/02/12 14:18
L35	15	("1668315" "2764978" "3402713" "4391272" "4493703" "4496344" "4563174" "4781684" "4820272" "4826483" "4826490" "4883466"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/02/12 14:23
L36	19	("5019045").URPN.	USPAT	OR	OFF	2010/02/12 14:24
L37	0	("2006/0030820").URPN.	USPAT	OR	OFF	2010/02/12 14:27
S1	8	((("5037393") or ("4820272") or ("5395339") or ("5222945") or ("1106194") or ("4832693") or ("5021047"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 12:32
S2	0	S1 and flush\$3	USPAT	OR	OFF	2006/11/20 12:32
S3	224	(604/220).CCLS.	USPAT; USOCR	OR	OFF	2006/11/20 12:32
S4	5	S3 and flush\$3	USPAT	OR	OFF	2006/11/20 12:34
S5	581	(604/187).CCLS.	USPAT; USOCR	OR	OFF	2006/11/20 12:35
S6	51	S5 and flush\$3	USPAT	OR	OFF	2006/11/20 12:35

S7	33	("2452591" "2860635" "3380489" "3930492" "3987930" "4044757" "4826483" "4906231" "4915692" "5085640" "5090962" "5116320" "5211629" "5242405" "5304138" "5308322" "5322515" "5370620" "5395339" "5496288" "5593387" "5807343" "5814017" "5817064" "5820603" "5899889" "5985962" "D383205" "D403064" "D406643"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 12:37
S8	49	("2737948" "3291151" "3494359" "3511239" "3563240" "3680558" "3730170" "3807119" "3835835" "3835855" "3976069" "3985122" "4051852" "4078565" "4437858" "4439184" "4453934" "4464174" "4496344" "4609371" "4610666" "4655747" "4673386" "4693706" "4702737" "4715854" "4792329" "4799494" "4834714" "4838855" "4865583" "4920970" "4932944" "4941876" "4979941" "4979942" "4986278" "4989606" "4994043" "5007903" "5048537" "5078691" "5102388" "5125892" "5147323").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 12:49
S9	11	S8 and flush\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 12:49
S10	26	("5522804").URPN.	USPAT	OR	OFF	2006/11/20 12:50
S11	17	S10 and flush\$3	USPAT	OR	OFF	2006/11/20 12:54
S12	295	(604/181).OCLS.	USPAT; USOCR	OR	OFF	2006/11/20 12:54
S13	19	S12 and flush\$3	USPAT	OR	OFF	2006/11/20 12:55

S14	1166	(604/110).CCLS.	USPAT; USOCR	OR	OFF	2006/11/20 12:56
S15	105	S14 and flush\$3	USPAT	OR	OFF	2006/11/20 12:56
S16	25	("4932941").URPN.	USPAT	OR	OFF	2006/11/20 13:07
S17	0	S16 and flush\$3	USPAT	OR	OFF	2006/11/20 13:08
S18	140	(604/111).CCLS.	USPAT; USOCR	OR	OFF	2006/11/20 13:08
S19	6	S18 and flush\$3	USPAT	OR	OFF	2006/11/20 13:09
S20	459	(604/93.01).CCLS.	USPAT; USOCR	OR	OFF	2006/11/20 13:09
S21	88	S20 and flush\$3	USPAT	OR	OFF	2006/11/20 13:12
S22	96	(syringe with flush\$3) and ((prevent\$3 or antireflux) with (reflux or aspirat\$3))	USPAT	OR	OFF	2006/11/20 14:13
S23	7	((("5222945") or ("5021047") or ("4820272") or ("6743216") or ("5593387") or ("5116320") or ("5522804")).PN.	USPAT; USOCR	OR	OFF	2006/11/20 14:15
S24	2	S23 and flush\$3	USPAT	OR	OFF	2006/11/20 14:14
S25	214	("2452591" "2737948" "2860635" "3291151" "3380489" "3478937" "3494359" "3511239" "3563240" "3667657" "3680558" "3730170" "3807119" "3835835" "3835855" "3930492" "3934586" "3951146" "3967759" "3976069" "3985122" "3987930" "3998224" "4044757" "4051852" "4078565" "4121588" "4233975" "4367738" "4391272" "4437858" "4439184" "4453934" "4464174" "4496344" "4571242" "4609371" "4610666" "4650468" "4655747" "4673386" "4693706" "4699614" "4702737"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 14:17

		"4715854" "4731068" "4781684" "4792329" "4799494" "4801295" "4813940" "4820272" "4826483" "4826491" "4834714" "4838855" "4863072" "4865583" "4887999" "4906231" "4915692" "4920970" "4932941" "4932944" "4941876" "4979941" "4979942" "4986278" "4989606" "4994043" "4994045" "5007903" "5024660" "5048537" "5057079" "5078691" "5085640" "5090962" "5102388" "5104385" "5106372" "5116320" "5125892" "5147323" "5147326" "5211629" "5242405" "5304138" "5308322" "5322515" "5370620" "5395339" "5496288" "5593387" "5807343" "5814017" "5817064" "5820603" "5899889" "5985962" "D383205" "D403064" "D406643").PN. OR ("4820272" "5021047" "5116320" "5222945" "5522804" "5593387" "6743216").URPN.				
S26	51	S25 and flush\$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 14:17
S27	16	("5308322").URPN.	USPAT	OR	OFF	2006/11/20 14:21
S28	21	("3911916" "3923053" "4067333" "4629455" "4702737" "4747829" "4861335" "4932944" "5102388" "5308322" "5415648" "5476449" "5509912" "5637087" "5709668" "5743886" "5776113" "5950986" "6485471" "6524278" "6599273").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 14:24
S29	5	("6723074").URPN.	USPAT	OR	OFF	2006/11/20 14:36

S30	42	iv with flush\$3 with catheter	USPAT	OR	OFF	2006/11/20 16:19
S31	0	flush\$3 with catheter with antireflux	USPAT	OR	OFF	2006/11/20 14:41
S32	0	flush\$3 with catheter with anti-reflux	USPAT	OR	OFF	2006/11/20 14:41
S33	0	flush\$3 with syringe with anti-reflux	USPAT	OR	OFF	2006/11/20 14:41
S34	0	flush\$3 with syringe with antireflux	USPAT	OR	OFF	2006/11/20 14:42
S35	1	("4820272").PN.	USPAT; USOCR	OR	OFF	2006/11/20 14:45
S36	1	("5522804").PN.	USPAT; USOCR	OR	OFF	2006/11/20 15:07
S37	1	("5069908").PN.	USPAT; USOCR	OR	OFF	2006/11/20 15:08
S38	1	("5990179").PN.	USPAT; USOCR	OR	OFF	2006/11/20 15:32
S39	1	("5522804").PN.	USPAT; USOCR	OR	OFF	2006/11/20 15:32
S40	150	syringe with flush\$3 with catheter	USPAT	OR	OFF	2006/11/20 16:19
S41	20	("3675891" "4210178" "4228802" "4245636" "4291702" "4300571" "4341224" "4414999" "4497468" "4624662" "4645496" "4954129" "5171230" "5279280" "5334153" "5549548" "5578002" "5624662" "5662585" "D279407").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 16:21
S42	0	("6830563").URPN.	USPAT	OR	OFF	2006/11/20 16:22
S43	21	("3911916" "3923053" "4067333" "4629455" "4702737" "4747829" "4861335" "4932944" "5102388" "5308322" "5415648" "5476449" "5509912" "5637087" "5709668" "5743886" "5776113" "5950986" "6485471" "6524278" "6599273").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/11/20 16:28
S44	10	("5743886").URPN.	USPAT	OR	OFF	2006/11/20 17:08

S45	1	("5743886").PN.	USPAT; USOCR	OR	OFF	2006/11/20 17:08
S46	3	("4367738" "4391272" "4650468").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/06 11:30
S47	10	("2375711" "2607343" "3045674" "3946732" "3951146" "4030498" "4233975").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/06 11:33
S48	46	("4391272").URPN.	USPAT	OR	OFF	2007/08/06 11:34
S49	6	("4391272" "4775364" "4863427" "4929231" "4932941" "4950243"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/06 11:37
S50	4	("5308331").URPN.	USPAT	OR	OFF	2007/08/06 11:38
S51	19	("3114135" "4367738" "4391272" "4493703" "4713056" "4731068" "4775363" "4775364" "4781684" "4790822" "4808169" "4820272" "4826484" "4915692" "4923443" "4932941" "4950243" "4961728"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/06 11:43
S52	4	("4233975" "4391272" "4493703" "4731068"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/08/06 11:46
S53	42	("4781684").URPN.	USPAT	OR	OFF	2007/08/06 11:47
S54	15	("5106372").URPN.	USPAT	OR	OFF	2007/08/06 11:55
S55	46	("4391272").URPN.	USPAT	OR	OFF	2007/08/06 12:01
S56	25	("4820272").URPN.	USPAT	OR	OFF	2007/08/06 12:26
S57	1	("4781684").PN.	USPAT; USOCR	OR	OFF	2007/08/06 12:38
S58	1	("4820272").PN.	USPAT; USOCR	OR	OFF	2007/08/06 12:38
S59	1	("4781684").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/17 18:04
S60	1	("20060030820").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/17 18:11

S61	1	("20050197563").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/18 09:47
S62	4	("4233975" "4391272" "4493703" "4731068"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/18 12:43
S63	44	("4781684").URPN.	USPAT	OR	OFF	2008/04/18 14:47
S64	21	S63 and friction\$4	USPAT	OR	OFF	2008/04/18 14:51
S65	1325	syringe and (coefficient with friction\$4)	US-PGPUB; USPAT	OR	ON	2008/04/18 15:34
S66	52	syringe with (coefficient with friction\$4)	US-PGPUB; USPAT	OR	ON	2008/04/18 15:34
S67	0	("2006/0030820").URPN.	USPAT	OR	OFF	2008/04/18 15:52
S68	0	("2006/0030820").URPN.	USPAT	OR	OFF	2008/04/18 15:52
S69	89	S65 and (plunger or piston or stopper) with (coefficient with friction\$4)	US-PGPUB; USPAT	OR	ON	2008/04/18 16:18
S70	0	("2006/0247582").URPN.	USPAT	OR	OFF	2008/04/18 16:23
S71	1325	syringe and (coefficient with friction\$4)	US-PGPUB; USPAT	OR	ON	2008/04/19 12:36
S72	368	S71 and ((high\$2) with (coefficient with friction \$4))	US-PGPUB; USPAT	OR	ON	2008/04/19 12:36
S73	4	("4233975" "4391272" "4493703" "4731068"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/19 14:14
S74	44	("4781684").URPN.	USPAT	OR	OFF	2008/04/19 14:15
S75	9	((("5106372") or ("3050059") or ("4057052") or ("5496285") or ("5902271") or ("6361524") or ("6171287") or ("5807374")).PN.	USPAT; USOCR	OR	OFF	2008/04/19 14:54

S76	11	(("5037393") or ("5593387") or ("4973310") or ("4950240") or ("4731068") or ("4493703") or ("4367738") or ("4057052") or ("3478937") or ("5120314")).PN.	USPAT; USOCR	OR	OFF	2008/04/19 14:57
S77	0	("20040010235").PN.	USPAT; USOCR	OR	OFF	2008/04/19 14:58
S78	1	("20040010235").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/19 14:58
S79	1	("4781684").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:24
S80	4	("4233975" "4391272" "4493703" "4731068"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:25
S81	2	("3946732" "3951146"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:29
S82	5	("2753867" "3742949" "4233975" "4367738"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:29
S83	49	("4493703").URPN.	USPAT	OR	OFF	2009/01/17 17:29
S84	19	("3114135" "4367738" "4391272" "4493703" "4713056" "4731068" "4775363" "4775364" "4781684" "4790822" "4808169" "4820272" "4826484" "4915692" "4923443" "4932941" "4950243" "4961728"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:33
S85	5	("3705582" "3941129" "4173227" "4252118" "4439187").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:35
S86	14	("4950243").URPN.	USPAT	OR	OFF	2009/01/17 17:35
S87	14	("4950243").URPN.	USPAT	OR	OFF	2009/01/17 17:39

S88	10	("2375711" "2607343" "3045674" "3946732" "3951146" "4030498" "4233975").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:44
S89	46	("4391272").URPN.	USPAT	OR	OFF	2009/01/17 17:45
S90	2	("3946732" "3951146").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:51
S91	69	("4233975").URPN.	USPAT	OR	OFF	2009/01/17 17:52
S92	4	("4233975" "4391272" "4493703" "4731068").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 17:59
S93	45	("4781684").URPN.	USPAT	OR	OFF	2009/01/17 17:59
S94	52	("2453591" "2860635" "20040010235" "20040010235" "3050059" "3331538" "3380489" "3478937" "3930492" "3987930" "4044757" "4057052" "4064879" "4367738" "4493703" "4731068" "4781684" "4826483" "4906231" "4915692" "4950240" "4973310" "5037393" "5085640" "5090962" "5106372" "5116320" "5120314" "5171287" "5211629" "5242405" "5304138" "5308322" "5322515" "5370620" "5395339" "5496285" "5496288" "5593387" "5795337" "5807312" "5807343" "5807374" "5814017" "5817064" "5820603" "5899881" "5899889" "5985962" "5090962" "6171287" "6171287" "6361524" "D383205" "D403064" "D406643").PN.	USPAT	OR	OFF	2009/01/17 18:04
S95	4	("4713056" "4986812" "5000737" "5021047").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 18:10
S96	8	("5120314").URPN.	USPAT	OR	OFF	2009/01/17 18:10

S97	15	("3478937" "3667657" "3934586" "3951146" "3967759" "3998224" "4121588" "4233975" "4391272" "4439184" "4571242" "4699614" "4781684" "4863072"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 18:11
S98	7	("5116320").URPN.	USPAT	OR	OFF	2009/01/17 18:12
S99	4	((("6004300") or ("3889673") or ("4064879") or ("4865583")).PN.	USPAT; USOCR	OR	OFF	2009/01/17 18:17
S100	24	("20040127859" "20050010235" "3889673" "3303846" "3331538" "3618603" "4064879" "4865583" "4064879" "4543093" "4664128" "4781684" "4950240" "5006114" "5106372" "5147333" "5201709" "5215536" "5246423" "5259840" "5314416" "5370620" "5509433" "5735825" "6004300").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/17 18:18
S101	1	("7331942").PN.	USPAT; USOCR	OR	OFF	2009/01/17 18:21
S102	12	("20040010235" "3050059" "4057052" "5037393" "5496285" "5795337" "5807374" "5899881" "5902271" "6171287" "6361524"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/01/17 18:22
S103	1	("2004/0010235").URPN.	USPAT	OR	OFF	2009/01/17 18:25
S104	18	("20040010235" "20040024366" "20040127859" "20040127859" "3050059" "3331538" "4057052" "5037393" "5098402" "5120314" "5135489" "5496285" "5807374" "5836919" "5899881" "5902271" "6171287" "6361524" "7104970").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/17 18:28

S105	47	("2453591" "20040010235" "3050059" "3331538" "3380489" "3478937" "3930492" "3987930" "4044757" "4057052" "4367738" "4493703" "4731068" "4781684" "4826483" "4906231" "4915692" "4950240" "4973310" "5037393" "5085640" "5090962" "5106372" "5116320" "5120314" "5211629" "5242405" "5304138" "5308322" "5322515" "5370620" "5395339" "5496285" "5496288" "5593387" "5795337" "5807312" "5807343" "5807374" "5814017" "5817064" "5820603" "5860635" "5899881" "5985962" "6171287" "6361524").PN.	US-PGPUB; USPAT	OR	OFF	2009/01/17 18:34
S106	6	("5807374" "5820601" "5899881" "6017330" "6053894" "6361524"). PN.	US-PGPUB; USPAT	OR	OFF	2009/01/17 18:40
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S112	8	syringe and ((plunger with (retain\$4 or hold\$3)) with (coefficient\$3))	US-PGPUB; USPAT	OR	ON	2009/01/17 19:16
S113	199	syringe and ((plunger with (retain\$4 or hold\$3)) with (friction\$4))	US-PGPUB; USPAT	OR	ON	2009/01/17 19:17
S114	1	("5120314").PN.	USPAT; USOCR	OR	OFF	2009/06/18 18:33
S115	100	((("4500310") or ("4543093") or ("4581024") or ("4599082") or ("4613326") or ("4713060") or ("4929232") or ("4961728") or ("4964866") or ("4973310") or ("4986818") or ("5026355") or ("5209739") or ("5242405") or ("5273542") or ("5273543") or ("5308330") or ("5338310") or ("5344404") or ("5489266") or ("5522804") or ("5598939") or ("5601077") or ("5611782") or ("5674203") or ("5713857") or ("5746733") or ("5752940") or ("5755696") or ("5795337") or ("5807374") or ("5832971") or ("5858008") or ("5865798") or ("5887633") or ("5893842") or ("5899881") or ("5989219") or ("6010486") or ("6036674") or ("6126643") or ("6217550") or ("6221052") or	US-PGPUB; USPAT; USOCR	OR	OFF	2009/06/18 18:35

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S122	10	("2658837" "2869541" "2888015" "3126004" "3934586" "3951146").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/28 13:51
S123	0	("4392852").URPN.	USPAT	OR	OFF	2009/09/28 13:54
S124	2	(syringe with ((surface with (inside or interior)) with (high with friction \$4)))	US-PGPUB; USPAT	OR	ON	2009/09/28 13:55
S125	124	(syringe with ((surface with (inside or interior)) with (friction\$4)))	US-PGPUB; USPAT	OR	ON	2009/09/28 13:57
S126	0	("2006/0030820").URPN.	USPAT	OR	OFF	2009/09/28 14:00
S127	1	("4391272").PN.	USPAT; USOCR	OR	OFF	2009/09/28 14:13
S128	16	("2880725" "2888923" "2935067" "3584626" "4507117" "4631057" "4639249" "4643199" "4650468" "4675005" "4692156" "4710170" "4767413").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/28 14:23

S129	8	("2888923" "3356089" "3487834" "3527216").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/28 14:24
S130	100	("4507117").URPN.	USPAT	OR	OFF	2009/09/28 14:25
S131	1	("5120314").PN.	USPAT; USOCR	OR	OFF	2009/09/28 14:44
S132	10	("5120314").URPN.	USPAT	OR	OFF	2009/09/28 14:52
S133	4	("4713056" "4986812" "5000737" "5021047").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/09/28 14:52
S134	20	(US-20080041516-\$ or US-20060247582-\$ or US-20060167411-\$ or US-20040010235-\$ or US-20040127859-\$).did. or (US-5743886-\$ or US-6997910-\$ or US-6228065-\$ or US-5522804-\$ or US-4781684-\$ or US-6447487-\$ or US-5897034-\$ or US-4969877-\$ or US-5120314-\$ or US-4391272-\$ or US-4233975-\$ or US-5106372-\$ or US-4950243-\$ or US-5021047-\$ or US-4713056-\$).did.	US-PGPUB; USPAT	OR	OFF	2009/09/28 14:54
S135	9	S134 and integral\$3	USPAT	OR	OFF	2009/09/28 14:54
S136	13	S134 and integral\$3	US-PGPUB; USPAT	OR	OFF	2009/09/28 14:54

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